The future of experiences and Drupal ユーザー体験とドルーパルの将来

はじめまして!

プレストン・ソーはイノベーションリーダー、研究者、スピーカー、そして「Decoupled Drupal in Practice (Apress 2018年)」の著者です。

Decoupled Drupalの世界的なリーダーであり、Decentralized Webや会話形 デザインの専門家でもあります。プレストンは、Acquia Inc.(アクイア社)でリサーチ・アンド・イノベーションディレクターを務めており、イノベーションセンターである アクイアラボを率い、ネスレやジョージア州政府などのプロジェクトにて次世代のアーキテクチャの開発に貢献しています。

過去2回にわたり、SXSWインタラクティブで講演し、大陸にて3つの言語で基調講演をおこなう人気スピーカーでもあります。

preston.so@acquia.com • @prestonso • #futuredrupal

Welcome!

Preston So is an innovation lead, researcher, speaker, and author of *Decoupled Drupal in Practice* (Apress, 2018).

A globally recognized voice on decoupled Drupal and subject matter expert in the decentralized web and conversational design, Preston is Director of Research and Innovation at Acquia, where he helms Acquia Labs, an innovation center architecting projects for clients like the State of Georgia and Nestlé Purina.

Having spoken twice at SXSW Interactive, Preston is a sought-after presenter with keynotes on four continents and in three languages.

preston.so@acquia.com • @prestonso • #futuredrupal

Decoupled Drupal in Practice

Pre-order now: tiny.cc/decoupled-in-practice

In the first and only comprehensive guide to decoupled Drupal across the stack, with a foreword by Drupal project lead Dries Buytaert, learn everything you need to know about decoupled Drupal—from building the back end and designing APIs to integrating with front-end technologies.



Decoupled Drupal in Practice

Architect and Implement Decoupled Drupal Architectures Across the Stack

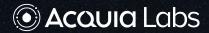
Preston So
Foreword by Dries Buytaert

apress

Acquia Labs

We're Acquia's innovation lab — a small team of generalist engineers building pioneering projects that push the envelope in emerging technologies.

Have forward-looking ideas but need expertise? Acquia Labs is your innovation partner.



What we'll cover

- A history of content in Drupal
- Constructing conversational content
- From a page-driven to a geospatial mentality
- Augmented and virtual reality
- Smart infrastructure and digital signage
- Epilogue: The future of Drupal

A history of content in Drupal

Drop.org

- Large swaths of primarily narrative text
- Images interspersed throughout and sometimes span viewport
- Multimedia scoped tightly to areas of page; videos are largely synonymous with images
- Interactions via keyboard and mouse

2000

home | faq | diary | search | submit news | user account

American democracy is taking a step forward.

Submitted by Dibbit on Sunday, December 03rd, 2000 - 16:47

Politics & Freedom

In the light of America's failure to elect a President, The Queen of England has given notice to the revocation of their independence. The revocation containing this notice also included some rules that are to be introduced in America.

[read more | 3493 bytes | 10 comments]

Hack for the community!

Submitted by Refrag on Saturday, December 02nd, 2000 - 14:37

Codina & Webdesian

Hackers have a great sense of community, I just wish that more of their time was spent benefitting the community.

[read more | 2043 bytes | 2 comments]

Older headlines

Wednesday, Nov 15th

 kuro5hin.org starts to 'diarize'
 Cloning around

Monday, Nov

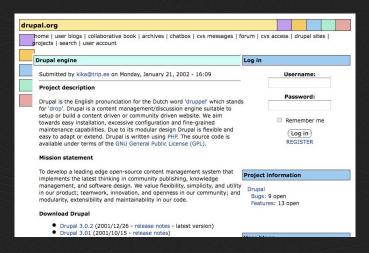
 What features would you add to your AIBO?
 What makes a good website?

Friday, Nov 10th

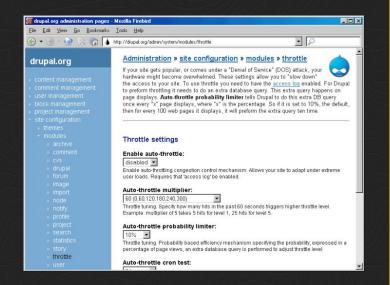
 Halucenogenic Psychotherapists

Thursday, Nov 9th

Drupal 1.0 released Drupal 3.0 released



Drupal 4.0 released





Drupal 6.0 released





Mobile

Responsive

Spark

- Large swaths of text span viewport
- Images span viewport
- Multimedia spans viewport
- Interactions via gestures

At right: Mobile-first editing

2012



NASHVILLE, Tenn. — It may be impossible to overstate the importance of bluegrass legend Earl Scruggs to American music. A pioneering banjo player who helped create modern country music, his sound is instantly recognizable and as intrinsically wrapped in the tapestry of the genre as Johnny Cash's baritone or Hank Williams' heartbreak.

Scruggs died Wednesday morning at age 88 of natural causes. The legacy he helped build with bandleader Bill Monroe, guitarist Lester Flatt and the rest of the Blue Grass Boys was evident all around Nashville, where he died in an area hospital. His string-bending, mind-blowing way of picking helped transform a regional sound into a national passion.

"It's not just bluegrass, it's American music," bluegrass fan turned country star <u>Dierks</u> Bentley said. "There's 17-or 18-year-old kids turning on today's country music and hearing that banjo and they have no idea where that came from. That sound has probably always been there for them and they don't realize someone invented that three-finger roll style of playing. You hear it everywhere."

Mobile

Drupal iOS SDK first released

Now known as Waterwheel.swift



Wearables

Apple Watch

- Limited real estate means limited coexistence
- Limited text spans viewport
- Images span viewport
- Multimedia spans viewport
- Interactions via gestures



Digital signage

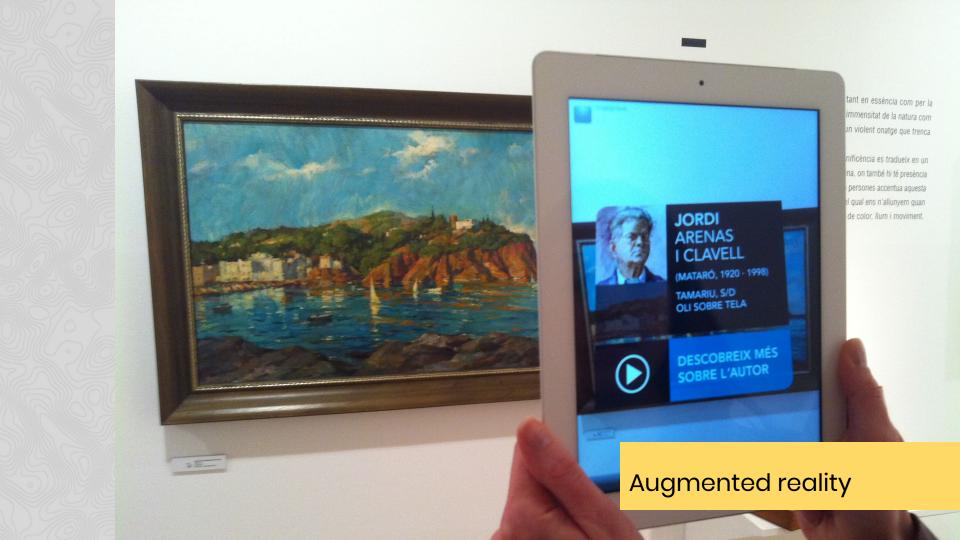
University of Iowa campus signage

- Need for legibility means limited coexistence
- Limited text spans viewport
- Images span viewport
- Multimedia spans viewport
- No direct interaction except some gestures

Set-top boxes

Drupal serves Roku

- Content display is locked down; limited design
- Limited text according to template
- Images according to template
- Multimedia according to template
- Interactions via remote



Augmented reality

Shopping with augmented reality

- More flexible design, but content is situational and contextual
- Limited text superimposed based on context
- Images superimposed based on context
- Multimedia superimposed based on context
- Interactions via gestures and motion (content proprioception)



Conversational

Ask GeorgiaGov

- Content is inaccessible without particular track
- Limited text as self-contained utterances
- No images
- No multimedia except audio
- Interactions via dialogue (zero user interface)

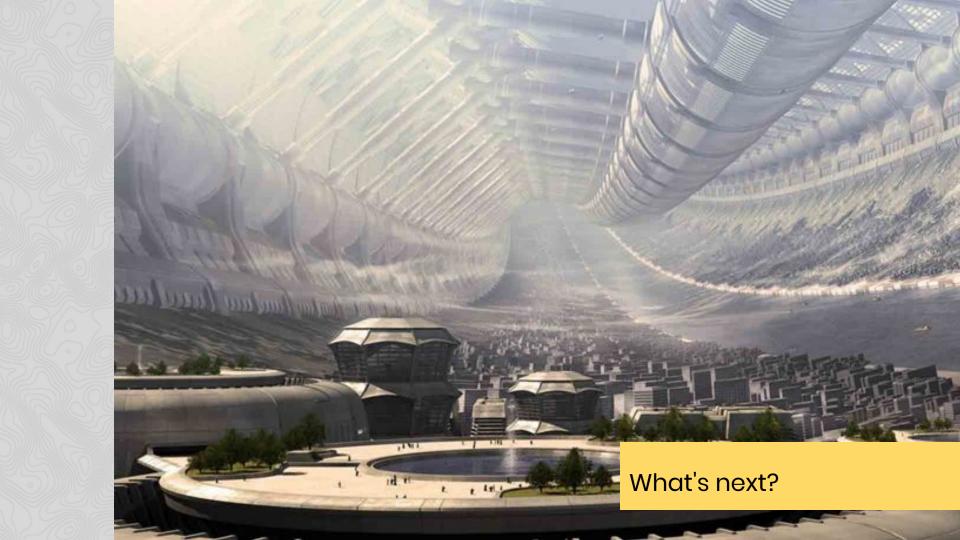


Ask GeorgiaGov is a new Alexa skill which gives citizens of the state of Georgia answers to questions about popular state government topics such as how to renew a driver's license, how to register to vote, how to enroll a child in pre-K programs, and even who Georgia's governor is.

Demo Alexa, ask GeorgiaGov



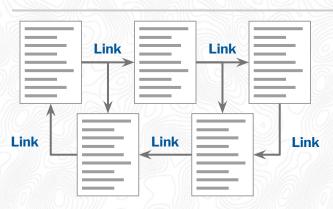
Alexa, ask GeorgiaGov



2

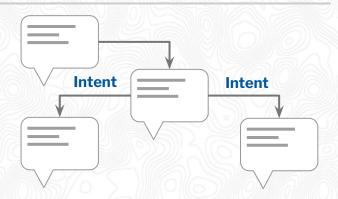
Constructingconversational content

Web vs. conversational content



Web content

Predominantly prose Screen-based, visual Link- and reference-rich High verbosity tolerance



Conversational content

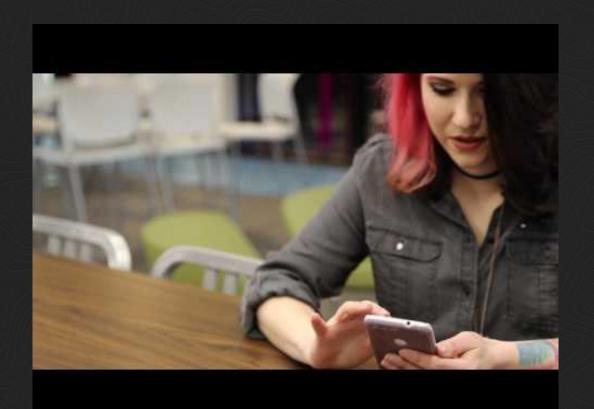
Single, brief thoughts Aural, zero user interface Link- and reference-poor Low verbosity tolerance

Information architecture requires guided, unidirectional flows

Conversational legibility Is this understandable to a listener rather than a reader? Content discoverability Is this content reachable for listeners using interaction flows, not links?

Voice interface usability requires solely aural approaches

Demo Shopping with chatbots



Shopping with chatbots

Demo Cooking with Alexa and Drupal



Cooking with Alexa and Drupal

Demo Voice-enabled search with Nestlé Purina



Voice-enabled search with Nestlé Purina

3

From a page-driven to a geospatial mentality

Our page-driven mentality is no longer relevant



Much of the web remains page-driven

Title

Lorem ipsum dolor sit a

Body

Consectetur adipiscing elit lorem ipsum dolor sit amet.

Lorem ipsum dolor sit a

Consectetur adipiscing elit lorem ipsum dolor sit amet.

Read more

As a result, our ideas of content are page-driven



But we need to move to a geospatial mentality

Proximity marketing is gaining traction in IoT

Content needs to be geospatial, physical, situational

As a result, content is decontextualized

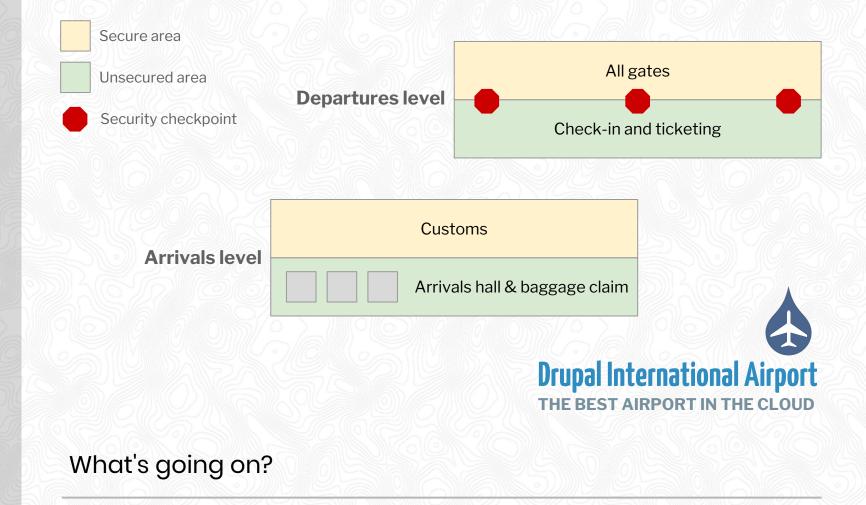
Beacons are here to stay

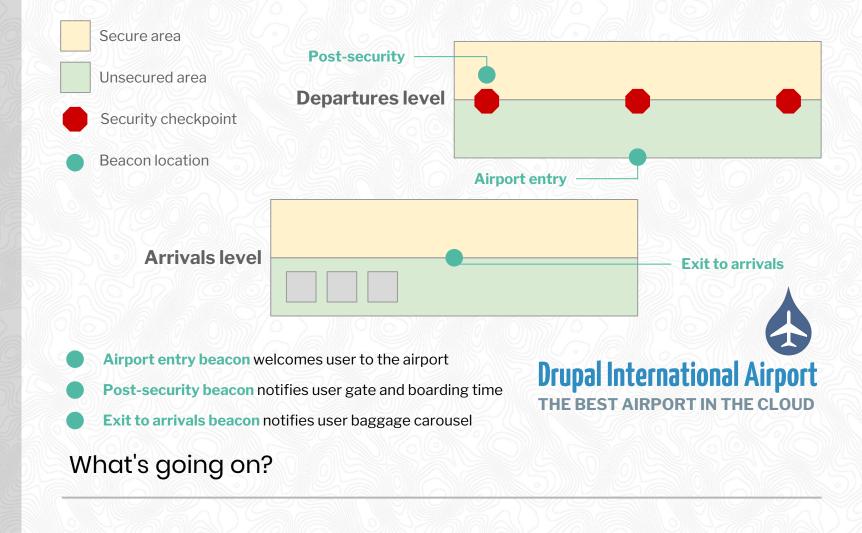
- According to a <u>report</u> by ABI Research in 2015, shipments of BLE beacons will break 400 million by 2020.
- Target, Walmart, and Macy's (big-box store chains in the U.S.) have <u>introduced</u> beacon technology to their sales floors.
- Marriott has <u>placed</u> beacons at 14 hotel locations to send promotional messages about hotel spas, bars, and restaurants.

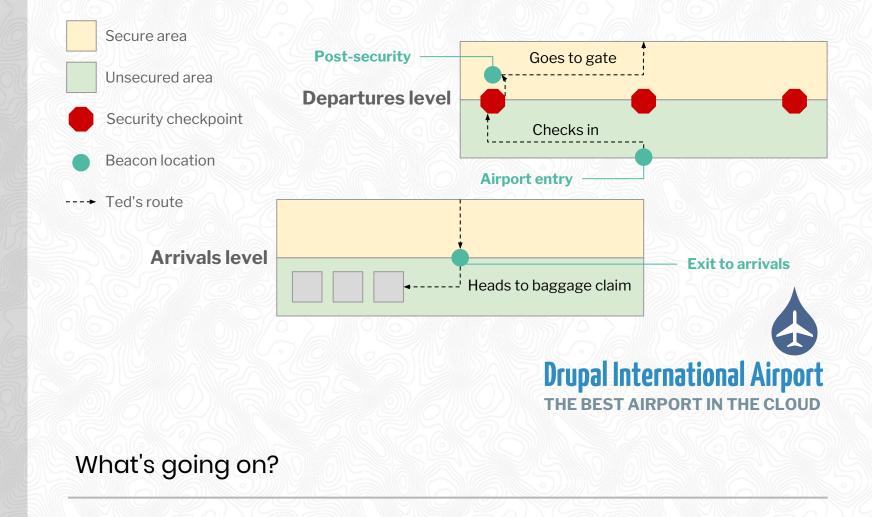
Where are beacons found?

- Airports
- Big-box stores (sales notifications)
- Hotels (seamless mobile check-in)
- Museums
- Restaurants

Demo Beacons and Drupal at the airport









Beacons and Drupal at the airport

Augmented and virtual reality



Augmented reality is here to stay

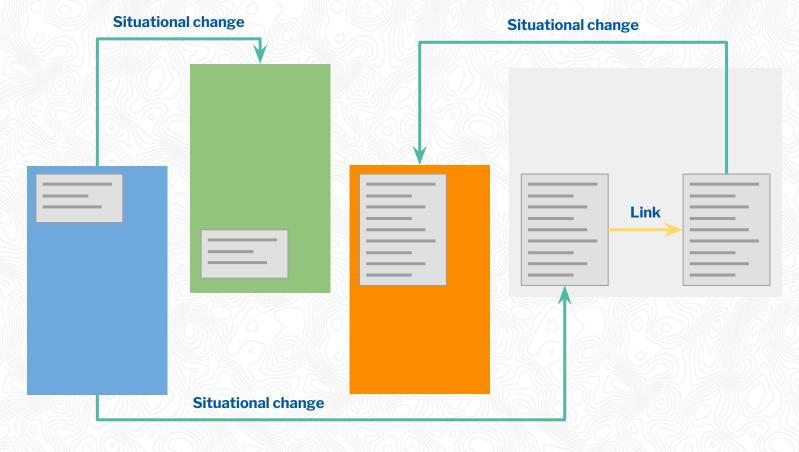
- Forrester in 2016: "Companies will continue to experiment with AR and VR, setting the foundation for larger implementations in 2018 and 2019."
- Augmented reality was the subject of a U.S.
 Senate Committee on Commerce, Science, and Transportation <u>hearing</u> in November 2016.

Situational content

- Rather than simply showing additional information as an overlay when the user finds the right place to point their smartphone (an active or explicit interaction)...
- ... it makes more sense to use beacons to have a
 passive or implicit interaction with what's in view
 directly to the user and facilitate richer
 bidirectional interaction (and gathering of data).



We can no longer think of content as pages



We can think of them as experiential overlays



Toni's Freilandeier

\$2.49

Most recent review by criz: 5 out of 5 These are great!



Manner Wafer Cookies

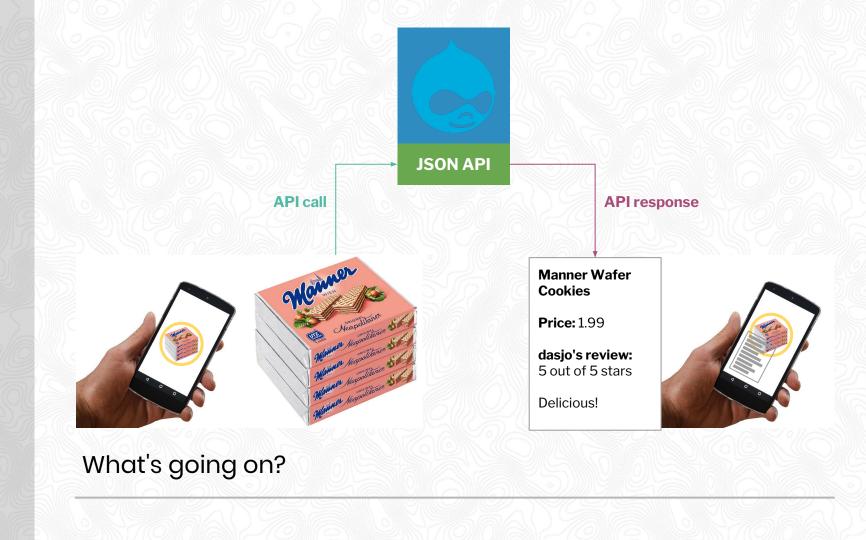
\$1.99

Most recent review by dasjo: 5 out of 5 Delicious!

Content undergoes decontextualization in augmented reality



Demo Shopping with augmented reality





Shopping with augmented reality

Demo Virtual reality on campus

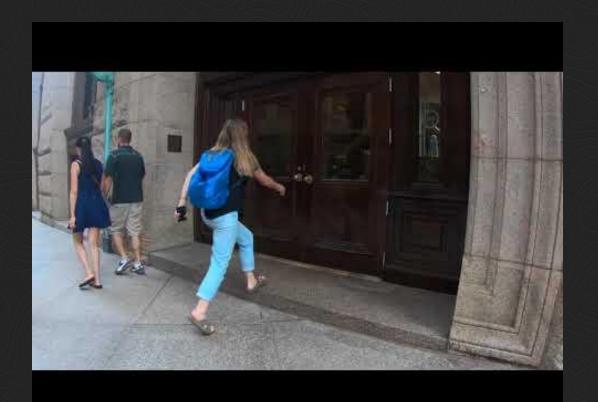


Virtual reality on campus

5

Smart infrastructure and digital signage

Demo Freshman year on a smart campus



Freshman year on a smart campus

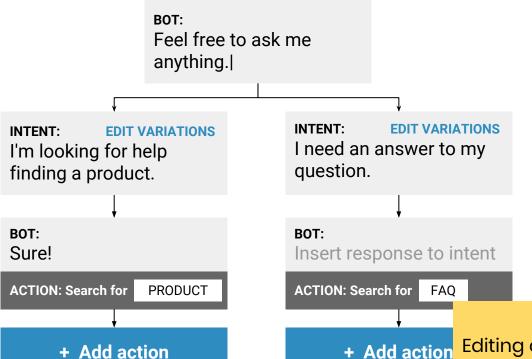
6

Epilogue The future of Drupal

These new experiences will define the future of Drupal

Create a conversational interaction flow

Build an interaction flow to delineate which content is available to your Android and iOS chatbot, your web-driven chatbot, and your Alexa and Google Home voice assistants.



Your content

FAO Where cap hours has epe Pocari Sweat?

PRODUCT Pocari Sweat

STORE LOCATION Shinagawa

PROMOTION 10% off all sports drinks

Editing conversational content



Create an augmented reality overlay

Use this interface to determine which content to deliver to an augmented reality overlay. The appearance of the overlay will be determined by the application providing augmented reality. Provide a target and content to return.

TARGET IMAGE



RETURNED CONTENT

PRODUCT

TITLE Pocari Sweat

DESCRIPTION

The best sports drink in the entire world, with a mild grapefruit flavor.

DESCRIPTION

ALTERNATE NAME Pocari

Your content

FAO Where can I purchase Pocari Sweat?

PRODUCT Pocari Sweat

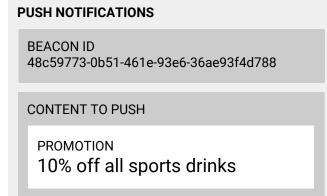
STORE LOCATION Shinagawa

PROMOTION 10% off all sports drinks

Editing augmented reality content

Insert a location and provide a push notification for each beacon by providing the beacon's unique identifier. Drupal will automatically provide a URL for the delivery of a push notification to the device.





Your content

Where can I purchase Pocari Sweat?

PRODUCT
Pocari Sweat

STORE LOCATION Shinagawa

PROMOTION 10% off all sports drinks

Editing situational content

A multifaceted Drupal is a more future-proof Drupal

Thanks to you, Drupal's story has only just begun

Thank you!

Preston So is an innovation lead, researcher, speaker, and author of *Decoupled Drupal in Practice* (Apress, 2018).

A globally recognized voice on decoupled Drupal and subject matter expert in the decentralized web and conversational design, Preston is Director of Research and Innovation at Acquia, where he helms Acquia Labs, an innovation center architecting projects for clients like the State of Georgia and Nestlé Purina.

Having spoken twice at SXSW Interactive, Preston is a sought-after presenter with keynotes on four continents and in three languages.

preston.so@acquia.com • @prestonso • #futuredrupal

ありがとうございました!

プレストン・ソーはイノベーションリーダー、研究者、スピーカー、そして「Decoupled Drupal in Practice (Apress 2018年)」の著者です。

Decoupled Drupalの世界的なリーダーであり、Decentralized Webや会話形 デザインの専門家でもあります。プレストンは、Acquia Inc.(アクイア社)でリサーチ・アンド・イノベーションディレクターを務めており、イノベーションセンターである アクイアラボを率い、ネスレやジョージア州政府などのプロジェクトにて次世代のアーキテクチャの開発に貢献しています。

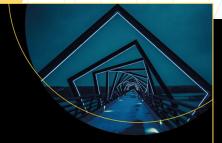
過去2回にわたり、SXSWインタラクティブで講演し、大陸にて3つの言語で基調講演をおこなう人気スピーカーでもあります。

preston.so@acquia.com • @prestonso • #futuredrupal

Decoupled Drupal in Practice

Pre-order now: tiny.cc/decoupled-in-practice

In the first and only comprehensive guide to decoupled Drupal across the stack, with a foreword by Drupal project lead Dries Buytaert, learn everything you need to know about decoupled Drupal—from building the back end and designing APIs to integrating with front-end technologies.



Decoupled Drupal in Practice

Architect and Implement Decoupled Drupal Architectures Across the Stack

Preston So
Foreword by Dries Buytaert

apress